



DOUGLAS S. JOHNSON, Q.C., B.A.Sc.  
NEIL McFATER, CMA  
WARREN HALL, B.A.Sc., M.B.A.  
T. SCOTT JOHNSON, B.A. (HONS.)  
FRANK FARFAN, B.ENG., LL.B.  
JOHN C. JEFFREY, B.Sc., M.Sc.  
TONY BORTOLIN, B.A.A., LL.B.  
JUDY WONG, B.Sc. (HONS.), LL.B.

## DENNISON ASSOCIATES

PATENT AND TRADE MARK  
AGENTS

SUITE 301  
133 RICHMOND STREET WEST  
TORONTO, ONTARIO, CANADA  
M5H 2L7

PATENTS  
TRADE MARKS  
INDUSTRIAL DESIGNS  
COPYRIGHTS

TELEPHONE: (416) 368-8313  
FACSIMILE: (416) 368-1645

email: jjeffrey@patentrite.com

OUR REF: JJ-11 028US

February 24, 2006

Mail Stop Post Issue  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA  
USA 22313-1450

Certificate  
MAR 02 2006  
of Correction

**Attention: Certificate of Correction Branch**

Dear Sir:

Re: United States Patent Application No. 6,648,330 <sup>132</sup>  
Title: THREE DIMENSIONAL PUZZLE  
Applicant: Michael Porter

Pursuant to receipt of the Letters Patent and due to a clerical error, the reference numerals 001, 100 and 110 were incorrect at the time of filing the above identified patent application. Please find enclosed the Certificate of Correction and charge our Deposit Account No. 040752 the \$100.00 fee. (The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication or credit any overpayment to our Deposit Account No. 040752).

We look forward to receiving confirmation of the entry of the amendment into the application.

Respectfully submitted,

  
John C. Jeffrey  
Registration No. 35,764  
Tel: (416) 368-8313

JJ/jc  
Enclosure

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1PATENT NO. : 6,648,330 *B2*

APPLICATION NO.: 10/071,093

ISSUE DATE : 11/18/2003

INVENTOR(S) : Michael Porter

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the drawings, Fig. 2, the reference numeral 001 was omitted as originally filed and should be located at the upper front left corner, reference numeral 100 should be replaced by 110 and reference numeral 100 should be located at the lower rear left corner.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

*M.P.*

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,648,330 B2  
APPLICATION NO. : 10/071093  
DATED : November 18, 2003  
INVENTOR(S) : Michael Porter

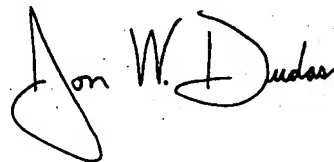
Page 1 of 3

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page should be deleted and substitute therefore the attached title page as shown on the attached page.

Signed and Sealed this

Twenty-second Day of August, 2006

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large, looped initial "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*



US006648330B2

Page 2 of 3

(12) **United States Patent**  
**Porter**(10) **Patent No.:** **US 6,648,330 B2**(45) **Date of Patent:** **Nov. 18, 2003**(54) **THREE DIMENSIONAL PUZZLE**(76) **Inventor:** **Michael Porter, 360 A Bloor St. W**  
**#19002, Toronto, Ont. (CA), M5S 1X1**(\*) **Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

4,662,638 A	5/1987	Vachek	
4,699,602 A	10/1987	Giorgi	
4,784,392 A	11/1988	Johnson et al.	
4,844,466 A *	7/1989	Johnson et al.	273/157 R
5,393,063 A	2/1995	Iohimaru	
5,405,135 A	4/1995	Embro	
5,868,388 A *	2/1999	Wood et al.	273/157 R
6,095,521 A	8/2000	Patel	

\* cited by examiner

*Primary Examiner*—Kien T. Nguyen(21) **Appl. No.:** **10/071,093**(22) **Filed:** **Feb. 11, 2002**(65) **Prior Publication Data**

US 2003/0151195 A1 Aug. 14, 2003

(51) **Int. Cl.<sup>7</sup>** ..... **A63F 9/12**(52) **U.S. Cl.** ..... **273/153 R; 273/156**(58) **Field of Search** ..... **273/153 R, 156,**  
**273/157; 434/403, 406, 433**(56) **References Cited****U.S. PATENT DOCUMENTS**

332,256 A *	12/1885	Keeler	273/160
3,788,645 A *	1/1974	Nelson	273/156
4,153,254 A *	5/1979	Mare	
4,534,563 A *	8/1985	Guenther	273/157 R

(57) **ABSTRACT**

The present invention provides for a new three dimensional puzzle apparatus having fifteen geometrically different components which can be interconnected to form a four by four by four cube. The four by four by four cube is subdivided into sixty four equally sized smaller cubes. Each of the fifteen individual pieces have from one to six of such smaller cubes interconnected to one another to form a unique three dimensional shape. The fifteen pieces include one piece with one small cube, one piece with three small cubes, six pieces with four small cubes, six pieces with five small cubes and one piece with six small cubes. The three dimensional puzzle can be used as a toy or game as well as for educational and security purposes.

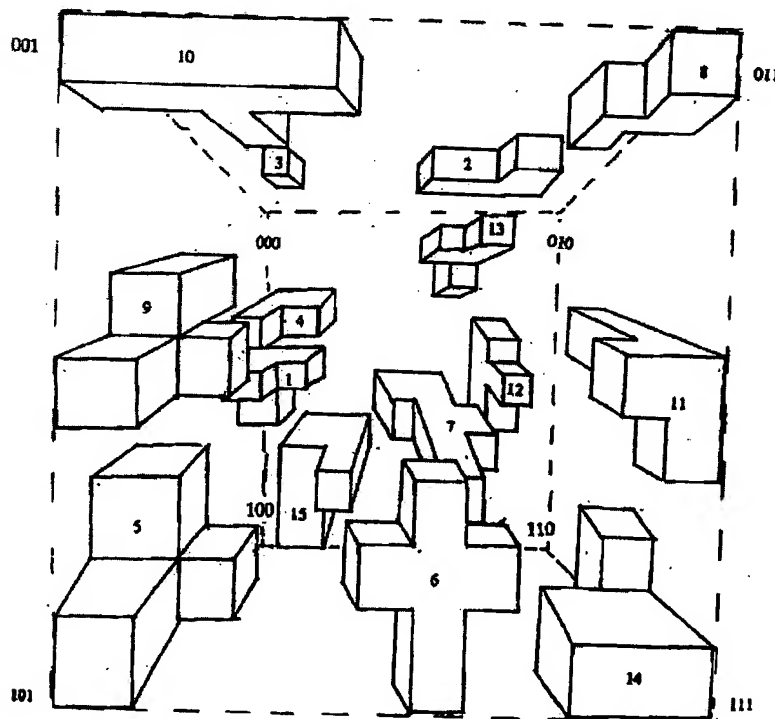
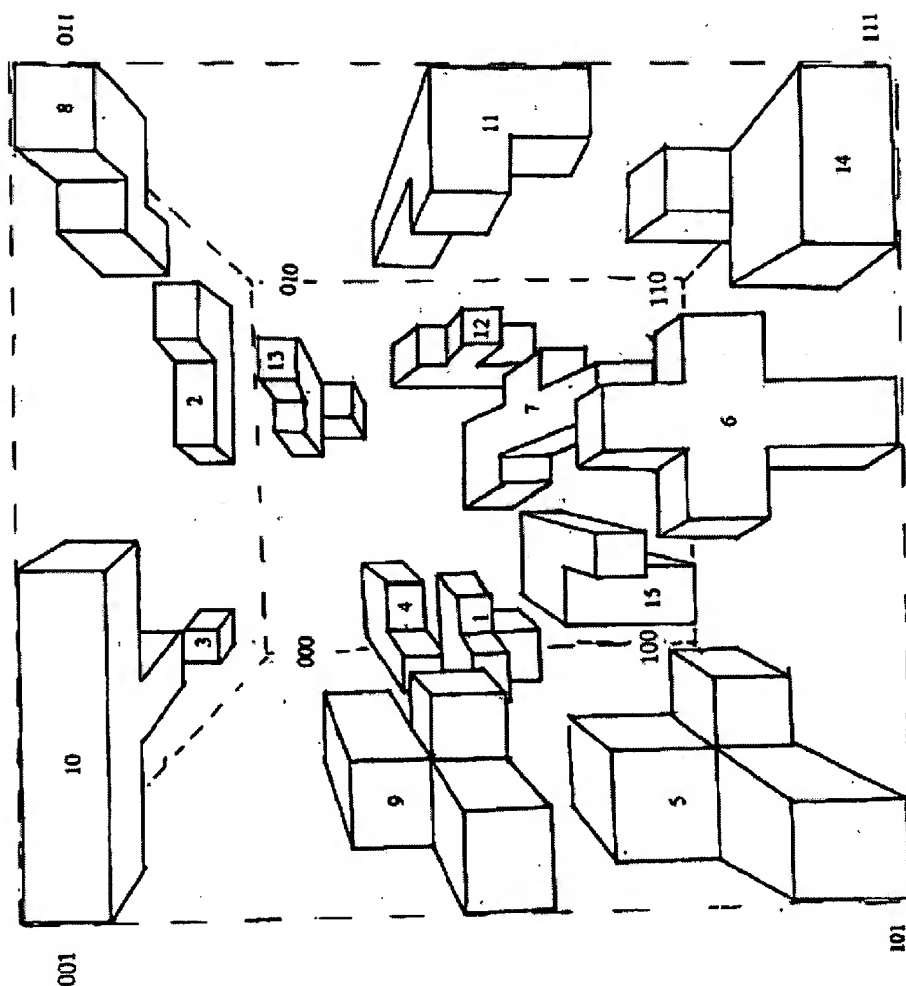
**4 Claims, 3 Drawing Sheets**

Figure 2



(12) **United States Patent**  
Porter

(10) Patent No.: **US 6,648,330 B2**  
(45) Date of Patent: **Nov. 18, 2003**

(54) **THREE DIMENSIONAL PUZZLE**

(76) Inventor: **Michael Porter, 360 A Bloor St. W  
#19002, Toronto, Ont. (CA), M5S 1X1**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

4,662,638 A 5/1987 Vachek  
4,699,602 A 10/1987 Giorgi  
4,784,392 A 11/1988 Johnson et al.  
4,844,466 A • 7/1989 Johnson et al. .... 273/157 R  
5,393,063 A 2/1995 Iohimaru  
5,405,135 A 4/1995 Embro  
5,868,388 A • 2/1999 Wood et al. .... 273/157 R  
6,095,521 A 8/2000 Patel

\* cited by examiner

(21) Appl. No.: **10/071,093**

(22) Filed: **Feb. 11, 2002**

(65) **Prior Publication Data**

US 2003/0151195 A1 Aug. 14, 2003

(51) Int. Cl.<sup>7</sup> ..... **A63F 9/12**

(52) U.S. Cl. .... **273/153 R; 273/156**

(58) Field of Search ..... **273/153 R, 156,  
273/157; 434/403, 406, 433**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

332,256 A • 12/1885 Keeler ..... 273/160  
3,788,645 A • 1/1974 Nelson ..... 273/156  
4,153,254 A 5/1979 Mare  
4,534,563 A • 8/1985 Guenther ..... 273/157 R

*Primary Examiner*—Kien T. Nguyen

(57) **ABSTRACT**

The present invention provides for a new three dimensional puzzle apparatus having fifteen geometrically different components which can be interconnected to form a four by four by four cube. The four by four by four cube is subdivided into sixty four equally sized smaller cubes. Each of the fifteen individual pieces have from one to six of such smaller cubes interconnected to one another to form a unique three dimensional shape. The fifteen pieces include one piece with one small cube, one piece with three small cubes, six pieces with four small cubes, six pieces with five small cubes and one piece with six small cubes. The three dimensional puzzle can be used as a toy or game as well as for educational and security purposes.

**4 Claims, 3 Drawing Sheets**

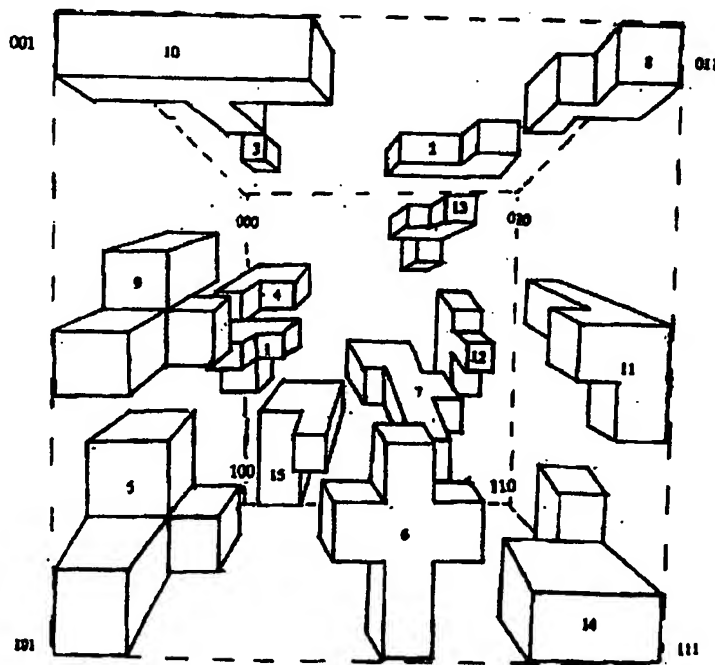
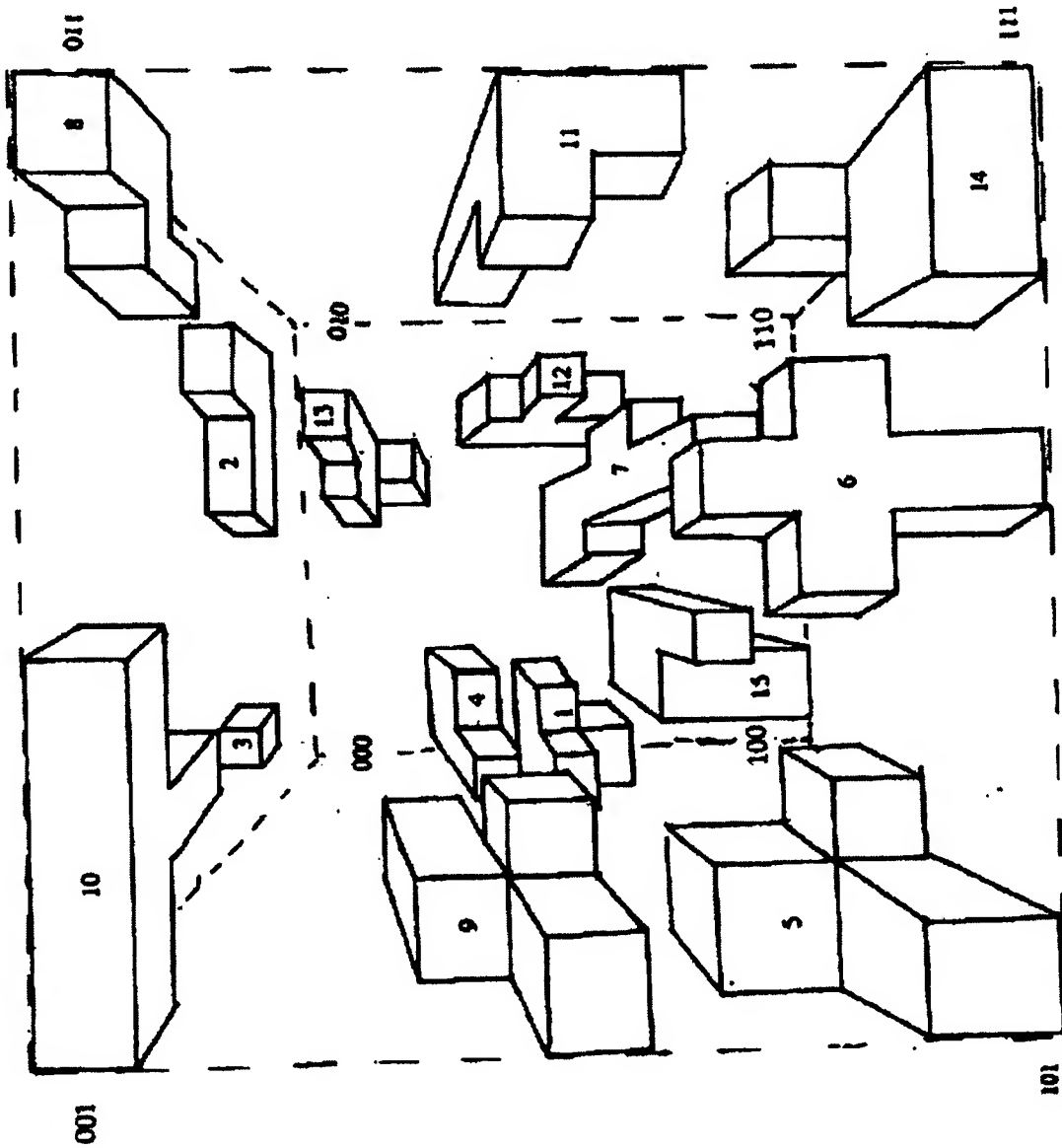


Figure 2



UNITED STATES PATENT AND TRADEMARK OFFICE

**CERTIFICATE OF CORRECTION**

*Page 183*

PATENT NO.: 6,648,330 B2

DATED : November 18, 2003

INVENTOR(S) : Michael Porter

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page should be deleted and substitute therefore the attached title page as shown on the attached page.